

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN 03/00792

A. CLASSIFICATION OF SUBJECT MATTER

Int Cl.⁷: C07K 14/02, C12P 21/02, A61P31/12, A61K 39/29, 39/39

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int Cl.⁷: C07K, C12P, A61P, A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Int Cl.⁷: C12N

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ, CPRS, CNKI, CA, MEDLINE, BA

Hepatitis, Protein vaccine, Th epitope, CTL epitope, B cell epitope, liposome

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	Immunological Journal, Vol. 19 No. 3, 25. May.2003 (25.05.03), Shi Tong-dong et. al. "Therapeutic peptides based on HBcAg18-27 epitope can induce CTL response in vitro and in vivo"pp. 65-169	1-5
A	ACTA Academiae Medicinae Militariae Tertiae Vol. 22 No.10, Oct. 00 (10.00), Wu Yu-zhang et. al. "Studies on molecular design, chemical synthesis and immunogenicity of novel antigenic peptides against hepatitis B virus", pp. 919-923	1
A	Journal of Virology, Vol. 71 No. 3, Mar. 97 (03.97), Ling-ling An et. al. "A multivalent minigene vaccine, containing B-cell, cytotoxic T-lymphocyte, and T _H epitopes from several microbes, induces appropriate responses in vivo and confers protection against more than one pathogen" pp. 2292-2302	1-5

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

17.Dec.2003 (17.12.03)

Date of mailing of the international search report

22 · JAN 2004 (22 · 01 · 2004)

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